

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Koichiro NAKATANI et al

Application No.: New U.S. Patent Application

Filed: June 27, 2003

Docket No.: 116377

For: DEVICE FOR PURIFYING EXHAUST GAS FOR ENGINE

INFORMATION DISCLOSURE STATEMENT


Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA, 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. English-language Abstracts of the non-English language references are attached hereto.
- ☒ 3. A computer-generated English translation of the following Japanese Patent Publication has been obtained from the website of the Japanese Patent Office ([<http://www.jpo.go.jp>]), and is attached, but has not been reviewed for accuracy. See References 1 and 3-5.
- ☒ 4. A concise explanation of the relevance of the non-English language references appears in the Appendix attached hereto.

Respectfully submitted,

  
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JAO:JSA/sqb  
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Information List (Form 1)

US Serial No.	
Our Ref.	TYT-M118-US

The following is a List of References provided by Applicant. Please file an Information Disclosure Statement using this Information.

Document Number	Publication Date	Brief Explanation or Page(s) & Line(s) of Related Part(s)
Japanese Unexamined Patent Publication No. 2002-13413	January 18, 2002	gas is increased to discharge the stored SOx from the filter.  This discloses that a NOx absorbent is carried on a particulate filter, that a direction of an exhaust gas flow through the filter is reversible by an action of a switch valve, and that the air-fuel ratio of the exhaust gas inflowing to the NOx absorbent is made rich and the temperature of the inflowing exhaust gas is increased to discharge the stored SOx from the NOx absorbent.
Japanese Unexamined Patent Publication No. 53-100314	September 1, 1978	This discloses that a reducing agent is fed to an oxidizing catalyst arranged in an exhaust passage, especially when a temperature of the catalyst exceeds a threshold, to thereby suppress a formation of sulfuric acid mist.

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Document Number	Publication Date	Brief Explanation or Page(s) & Line(s) of Related Part(s)
Japanese Patent No. 3216382	August 3, 2001	This discloses that, first, a temperature of a particulate filter carrying an oxidizing catalyst thereon is controlled to a first temperature in which SO <sub>2</sub> is released from a wash coat layer of the filter, and after the release of SO <sub>2</sub> , the filter temperature is controlled to a second temperature to burn the particulate trapped in the filter.
Japanese Patent No. 2658756	June 6, 1997	This discloses that a catalyst having an oxygen storage function is arranged in an exhaust passage downstream of a NOx absorbent.
Japanese Unexamined Patent Publication No. 2001-342820	December 14, 2001	This discloses that detoxification means is arranged in an exhaust passage downstream of a particulate filter, that a direction of an exhaust gas flow through the filter is reversible by an action of a switch valve, and that the air-fuel ratio of the exhaust gas inflowing to the filter is made rich and the temperature of the inflowing exhaust

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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 116377		APPLICATION NO. New U.S. Patent Application	
INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				APPLICANT(S) Koichiro NAKATANI et al			
				FILING DATE June 27, 2003		GROUP	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
	1	JP A 2002-13413 (w/abst & trans)	01/18/2002	Japan		
	2	JP 53-100314	09/01/1978	Japan		
	3	JP B2 3216382 (w/abst & trans)	08/03/2001	Japan		
	4	JP B2 2658756 (w/abst & trans)	06/06/1997	Japan		
	5	JP A 2001-342820 (w/abst & trans)	12/14/2001	Japan		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						

EXAMINER	DATE CONSIDERED
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Date: June 27, 2003